

## Special Issue

# Advances in Battery Management Systems

### Message from the Guest Editors

In recent years, we have witnessed phenomenal growth in electrochemical battery technologies driven by the proliferation of Li-ion batteries in the e-mobility and renewable energy storage sectors. At present, we are witnessing beyond-Li-ion breakthroughs in the form of new cell chemistries and configurations. For all chemistries and configurations, it holds that the successful implementation in battery-powered systems is dependent on the design of the battery management system (BMS), since this finally determines the performance of the system in its broadest sense. The BMS is, therefore, the key enabling component to assure the dependability of emerging battery technologies. For this Special Issue, we seek contributions focusing on challenges, solutions and improvements to the BMS hardware and software. We aim to highlight recent innovative discoveries addressing battery safety, state-of-charge, state-of-health, state-of-power estimation, thermal behavior, thermal runaway prediction and Li plating. Moreover, we are happy to receive contributions on the implementation of advanced measurements techniques/diagnostics, sensors and reference electrodes for BMS.

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### Guest Editors

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### Deadline for manuscript submissions

closed (15 December 2023)



## Batteries

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CiteScore 6.6



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